## **Patent Claims**

1. A method for achieving a light or UV screening effect on the skin of a patient, comprising applying to the skin a compound of formula I

5

$$R^{2}$$

$$R^{1}$$

$$R^{5}$$

$$R^{5}$$

$$R^{7}$$

$$R^{8}$$

$$R^{9}$$

$$R^{10}$$

$$R^{9}$$

10

15

where R1 and R2 are

- H or
- OR<sup>11</sup>, where each OR<sup>11</sup> is independently
  - OH,
  - straight-chain or branched C₁- to C₂₀-alkoxy,
  - straight-chain or branched C<sub>3</sub>- to C<sub>20</sub>-alkenyloxy,
  - straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-hydroxyalkoxy, where one or more hydroxyl groups is bonded to a primary or secondary carbon atom and alkyl chains of said hydroxyalkoxy moiety optionally being interrupted by

ı

- oxygen, or
- a  $C_{3}$  to  $C_{10}$ -cycloalkoxy group or  $C_{3}$  to  $C_{12}$ -cycloalkoxy group, having rings optionally bridged by  $-(CH_2)_n$  groups, where n = 1 to 3, or

- mono- and/or oligoglycosyl,

with the proviso that at least one of R1 or R2 is OR11,

- R<sup>3</sup> is OR<sup>11</sup>, and

 $R^4$  to  $R^7$  and  $R^{10}$  are each independently,

- H,
- straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-alkyl,
- straight-chain or branched C<sub>3</sub>- to C<sub>20</sub>-alkenyl,
- straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-hydroxyalkyl, where the hydroxyl group is bonded to a primary or secondary carbon atom

25

20

5

10

15

20

and alkyl chains of said hydroalkyl moieties optionally being interrupted by oxygen, or

-  $C_{3}$ - to  $C_{10}$ -cycloalkyl groups or  $C_{3}$ - to  $C_{12}$ -cycloalkenyl groups, having rings optionally bridged by -(CH<sub>2</sub>)<sub>n</sub>- groups, where n = 1 to 3. and

R<sup>8</sup> and R<sup>9</sup> are each independently

- . Н,
- OR<sup>11</sup>.
- straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-alkyl,
- straight-chain or branched C<sub>3</sub>- to C<sub>20</sub>-alkenyl,
- straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-hydroxyalkyl, where the hydroxyl group is bonded to a primary or secondary carbon atom and alkyl chains of said hydroxyalkyl moieties optionally being interrupted by oxygen, or
- $C_{3}$  to  $C_{10}$ -cycloalkyl or  $C_{3}$  to  $C_{12}$ -cycloalkenyl, having rings optionally bridged by -(CH<sub>2</sub>)<sub>n</sub>- groups, where n = 1 to 3.
- 2. A method according to Claim 1 wherein  $R^4$  to  $R^7$  and  $R^{10}$  are H.
- 3. A method according to claim 1 wherein R<sup>3</sup> is
  - OH or
  - straight-chain or branched C₁- to C₂₀-alkoxy, or
  - mono- and/or oligoglycosyl, and

R<sup>1</sup> or R<sup>2</sup> are

- OH,
- straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-alkoxy or
- mono- and/or oligoglycosyl.

25

- 4. A method according to claim 1, wherein R<sup>3</sup> is methoxy, ethoxy or ethylhexyloxy.
- 5. A method according to claim 1, wherein R<sup>1</sup> or R<sup>2</sup> is methoxy,ethoxy or ethylhexyloxy.
- 6. A method according to claim 1, wherein R<sup>1</sup> or R<sup>2</sup> is glucosyl.

A method according to claim 1, wherein compound according to claim 1 wherein R<sup>3</sup> is a straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-alkoxy group, and R<sup>8</sup> and R<sup>9</sup> are identical and are H or straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-alkoxy.

- A method according to claim 7, wherein R<sup>3</sup> is methoxy, ethoxy or ethylhexyloxy.
- A method according to claim 7, wherein R<sup>8</sup> and R<sup>9</sup> is methoxy, ethoxy or ethylhexyloxy. 10
  - 10. A method according to claim 8, wherein R<sup>8</sup> and R<sup>9</sup> is methoxy, ethoxy or ethylhexyloxy.
- 11. A method according to claim 1, wherein at least one of R<sup>1</sup> to R<sup>3</sup> is OH, and at least one of R<sup>1</sup> and R<sup>2</sup> is OH. 15
  - 12. A method according to claim 1, wherein the compound of formula I is applied in the form of a pharmaceutical composition.
- 13. A method according to claim 12, wherein the pharmaceutical composition is in encapsulated form. 20
  - 14. A method according to claim 12, wherein the pharmaceutical composition further comprises an additional UV filter.
- A method according to claim 14, wherein the additional UV filter is 3-25 (4'-methylbenzylidene)-dl-camphor, 1-(4-tert-butylphenyl)-3-(4methoxy-phenyl)propane-1, 3-dione, 4-isopropyldibenzoylmethane, 2-hydroxy-4-methoxybenzophenone, octyl methoxycinnamate, 3,3,5trimethyl-cyclohexyl salicylate, 2-ethylhexyl (dimethylamino)benzoate, 2-ethylhexyl 2-cyano-3,3-diphenylacrylate, or 2-phenylbenzimidazole-5-sulfonic acid or a potassium, sodium or 30 triethanolamine salt thereof.

5

10

20

25

30

- 16. A method according to claim 12, wherein the pharmaceutical composition further comprises at least one antioxidant.
- 17. A method according to claim 12, wherein the pharmaceutical composition comprises a cosmetically or dermatologically suitable excipient.
  - 18. A method according to claim 1, wherein the compound of the formula I is prepared by reacting a 2-hydroxyacetophenone compound with a lithium compound and subsequently a keto compound.
  - A method of stabilizing a UV filter comprising adding thereto a compound of formula I

where R1 and R2 are

- . H or
- OR<sup>11</sup>, where each OR<sup>11</sup> is independently
  - OH
  - straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-alkoxy,
  - straight-chain or branched C<sub>3</sub>- to C<sub>20</sub>-alkenyloxy,
  - straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-hydroxyalkoxy, where one or more hydroxyl groups is bonded to a primary or secondary carbon atom and alkyl chains of said hydroxyalkoxy moiety optionally being interrupted by oxygen, or
  - a  $C_{3}$  to  $C_{10}$ -cycloalkoxy group or  $C_{3}$  to  $C_{12}$ -cycloalkenyloxy group, having rings optionally bridged by -(CH<sub>2</sub>) $_{0}$  groups, where n = 1 to 3, or

mono- and/or oligoglycosyl,

with the proviso that at least one of R1 or R2 is OR11,

- R<sup>3</sup> is OR<sup>11</sup>, and

R<sup>4</sup> to R<sup>7</sup> and R<sup>10</sup> are each independently,

5

V

- . H.
- straight-chain or branched C₁- to C₂₀-alkyl,
- straight-chain or branched C<sub>3</sub>- to C<sub>20</sub>-alkenyl,
- straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-hydroxyalkyl, where the hydroxyl group is bonded to a primary or secondary carbon atom and alkyl chains of said hydroalkyl moieties optionally being interrupted by oxygen, or
- $C_{3}$  to  $C_{10}$ -cycloalkyl groups or  $C_{3}$  to  $C_{12}$ -cycloalkenyl groups, having rings optionally bridged by -(CH<sub>2</sub>)<sub>n</sub>- groups, where n = 1 to 3, and

R<sup>8</sup> and R<sup>9</sup> are each independently

15

10

- Η,
- OR<sup>11</sup>.
- straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-alkyl,
- straight-chain or branched C<sub>3</sub>- to C<sub>20</sub>-alkenyl,
- straight-chain or branched C<sub>1</sub>- to C<sub>20</sub>-hydroxyalkyl, where the hydroxyl group is bonded to a primary or secondary carbon atom and alkyl chains of said hydroxyalkyl moieties optionally being interrupted by oxygen, or
- $C_{3}$  to  $C_{10}$ -cycloalkyl or  $C_{3}$  to  $C_{12}$ -cycloalkenyl, having rings optionally bridged by - $(CH_{2})_{n}$  groups, where n = 1 to 3.

25

20